

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1 1. (Currently amended) A computer implemented method to facilitate
2 suspending threads in a platform-independent virtual machine implemented on an
3 operating system that lacks a global mechanism for suspending threads,
4 comprising:
5 | scheduling a garbage-collection thread to execute that requires other
6 threads to be suspended during execution; and
7 | in response to scheduling the thread,
8 changing a scheduling policy for the thread, wherein
9 changing the scheduling policy for the thread includes changing the
10 | scheduling policy from round-robin to a first-in, first-out policy,
11 | which guarantees that the thread will run to completion without
12 | being interrupted by an event timer mechanism, and
13 raising a priority of the thread to a highest available
14 priority, whereby changing the scheduling policy and raising the
15 priority of the thread causes the thread to run to completion while
16 other threads do not run.

- 1 2. (Previously presented) The computer implemented method of claim 1,
2 further comprising:
3 | upon completion of the thread,

4 reducing the priority of the thread to an assigned priority;
5 and
6 returning the scheduling policy of the thread to an assigned
7 scheduling policy.

1 3-4 (Canceled).

1 5. (Previously presented) The computer implemented method of claim 1,
2 wherein the operating system that lacks the global mechanism for suspending
3 threads includes POSIX.

1 6. (Previously presented) The computer implemented method of claim 1,
2 wherein the platform-independent virtual machine includes a JAVA VIRTUAL
3 MACHINE™.

1 7. (Previously presented) The computer implemented method of claim 1,
2 further comprising performing a garbage collection with the thread.

1 8. (Currently amended) A computer-readable storage medium storing
2 instructions that when executed by a computer cause the computer to perform a
3 method to facilitate suspending threads in a platform-independent virtual machine
4 implemented on an operating system that lacks a global mechanism for
5 suspending threads, the method comprising:
6 | scheduling a garbage-collection thread to execute that requires other
7 threads to be suspended during execution; and
8 in response to scheduling the thread,
9 changing a scheduling policy for the thread, wherein
10 changing the scheduling policy for the thread includes changing the

11 | scheduling policy from round-robin to a first-in, first-out policy,
12 | which guarantees that the thread will run to completion without
13 | being interrupted by an event timer mechanism, and
14 | raising a priority of the thread to a highest available
15 | priority, whereby changing the scheduling policy and raising the
16 | priority of the thread causes the thread to run to completion while
17 | other threads do not run.

1 9. (Original) The computer-readable storage medium of claim 8, the
2 method further comprising:
3 upon completion of the thread,
4 reducing the priority of the thread to an assigned priority;
5 and
6 returning the scheduling policy of the thread to an assigned
7 scheduling policy.

1 10-11 (Canceled).

1 12. (Original) The computer-readable storage medium of claim 8, wherein
2 the operating system that lacks the global mechanism for suspending threads
3 includes POSIX.

1 13. (Original) The computer-readable storage medium of claim 8, wherein
2 the platform-independent virtual machine includes a JAVA VIRTUAL
3 MACHINE™.

1 14. (Original) The computer-readable storage medium of claim 8, the
2 method further comprising performing a garbage collection with the thread.

1 15-21 (Canceled).